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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/529,374	10/05/2005	Patrick Meynier	612.44903X00	4781	
20457	7590 06/29/2006	EXAMINER		INER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			HELLNER	HELLNER, MARK	
SUITE 1800	i Sevenieenih Sikeei		ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22209-3873			3663		
			DATE MAILED: 06/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/529,374	MEYNIER ET AL.				
		Examiner	Art Unit				
		Mark Hellner	3663				
The Period for Rej	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a)☐ This 3)☐ Since	oonsive to communication(s) filed on action is FINAL . 2b)⊠ This e this application is in condition for allowar ed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro					
Disposition of	Disposition of Claims						
 4) Claim(s) 23-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 23-27,29,31,33-35 and 39-44 is/are rejected. 7) Claim(s) 28,30,32 and 36-38 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Page 1	apers						
10)☐ The c Appli Repla	specification is objected to by the Examine drawing(s) filed on is/are: a) acceptant may not request that any objection to the eacement drawing sheet(s) including the correct toath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under	· 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice of Do	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449 or PTO/SB/08))/Mail Date (23/28/2005	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 23 to 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 23, there is no antecedent basis for the terms "two end plates" recited by line 7.

Claims 24 to 39 are derived from claim 23.

In claim 40, there is no antecedent basis for the terms "the plates" recited by lines 4 and 5.

Claims 41 to 44 are derived from claim 40.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23 to 25, 29, 31 and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Paulsson.

Paulsson discloses a device intended to emit wave in an underground formation comprising: a vibrating element (figure 4); two driving slabs (66 and 83); a motive element (67 and 68) to generate vibration in the slabs; a generator (58 and 56) for providing periodic control signals to the motive element; the driving slabs being coupled to the solid material that makes up the wall of the well bore.

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The structure recited above reads on claim 23.

Claims 24 and 25 read on the shape of element (66) as shown by figure 5.

The wall of the well bore reads on claim 29.

Claims 31 and 39 read on the motive structure shown by figure 4.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26, 27, 33 to 35 and 40 to 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paulsson.

The difference between claim 40 and Paulsson is sequentially controlling the various vibrators by means of a control with time lags between respective triggering times that depend on intervals between locations of the vibrators and a velocity of propagation of waves in formations surrounding the well, so as to obtain directive emission.

This difference read on the utilization of the Paulsson device for seismic surveying.

Motivation for using the Paulsson devices for seismic surveying is given by figures 8-10.

Claims 41 to 44 recite standard seismic surveying methodology.

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Claims 33 to 35 recite known seismic surveying methodology and structure that would have been inferred by a skilled artisan from figure 8-10.

Providing uneven relieve to the surfaces to the elements represented by number (66) would have been obvious because it was well known that a rough surface improve coupling.

Claims 28, 30, 32 and 36 to 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 571 272 6981.

Mark Hellner

Primary Examiner

AU 3663

Mark Hellen